

## Construction Plan Review Checklist

Project Number: \_\_\_\_\_ Date: \_\_\_\_\_

Project Name: \_\_\_\_\_ DE: \_\_\_\_\_

Location: \_\_\_\_\_ Engineer: \_\_\_\_\_

*Code sections refer to Public Works Standards (PWS) except as noted otherwise. GCDC = Gresham Community Development Code*

STANDARD	Code	Complete	Needs Revision	Missing	N/A
<b>SUPPORTING DOCUMENT SUBMITTALS</b>					
Developer's Information Form submitted ( <i>DE provide to Program Tech</i> ) .	<a href="#">Link</a>				
Authority to sign submitted if owner is not an individual ( <i>example: operating agreement or letter of authority</i> )					
Engineer's Estimate Template submitted.	<a href="#">Link</a>				
Impervious and Pervious Surface Site Drawing submitted.	<a href="#">Link</a>				
Final storm report submitted that graphically shows contributing areas (basin) for stormwater drainage for each stormwater facility. Includes area of each basin.					
Stormwater Facility Tracking Form submitted and includes the required attachment.	<a href="#">Link</a>				
Water Meter Sizing Chart submitted.	<a href="#">Link</a>				
Any necessary design modifications submitted on correct form with supporting documents included.	<a href="#">Link</a>				
If right-of-way by separate instrument is required, a site plan and a legal description of dedication submitted.					
Right of way permit submitted, with proof of insurance and traffic control plan submitted to Heather.Figueroa@greshamoregon.gov	<a href="#">Link</a>				
If a Stormwater Agreement Maintenance agreement is needed, cross section of raingardens, over flow elevations and any other applicable pertinent stormwater features were provided.					
If an encroachment license is needed, a site plan showing type, location of encroachment, and height, width and depth of encroachment. A legal description of the site (not encroachment) is also needed.					
If undergrounding is required, cost estimate for undergrounding as well as estimate for entire project cost was submitted.					
If a reimbursement district is requested, all required submittal items were submitted as outlined on the application form.					
Preliminary PGE Plan that shows the electricity to development and street lights. Final plan required before construction plan approval.					
<b>GENERAL</b>					
Vicinity map. Must be at a scale and clarity that is useful.	2.03.01.b				
Index of sheets.	2.03.01.c				

STANDARD	Code	Complete	Needs Revision	Missing	N/A
Complete legend of symbols used.	2.03.01.d				
General and construction notes pertinent to project. Check for standard notes.	<a href="#">Link</a>				
Project Number (07 number) in Title Block.					
Temporary and/or permanent benchmarks used, along with descriptions, elevations of benchmarks and datum. National Geodetic Vertical Datum of 1929, 1947 adjustment.	2.03.01.f				
Must reference a City of Gresham Benchmark, and be verified by Austin Bennington (City Surveyor ) or via Gresham Control Points Map on City Website.	<a href="#">Link</a>				
Engineer's name, address, phone number and seal.					
Developer's/owner's name, address and phone number.	2.03.01.h				
Provide contact phone number for all affected utility companies, including City utilities and Transportation.	<a href="#">Link</a>				
Show tax lot numbers and address provided by Addressing Technician. Use existing address for land divisions.	2.03.01.k				
22" x 34" Standard sheet size with City frames.	2.02.05				
Conditions of Approval related to public facilities construction met.					
Plat Sheet included and consistent with public facilities plans, such as easement types, easement ownership, and rights-of-way dedications.					
Where profiles are drawn on the same sheet as the plan view, the profile shall be immediately below the plan view (aligned) with the same horizontal scale as the plan sheet.	2.03.04				
Sheets to have match line for adjoining sheets.					
Correct City street name shown and classification.					
North arrow, bar scale, and narrative scale on each sheet.					
Public Easements shown on plans shall be 20' minimum (depending on depth and size).	3.02.04 4.11.03				
Identify easements as public or private.	5.02.05				
Site composite utility plan of entire project with street right-of-way and/or subdivision layout is at a scale that is easy to read.	2.03.01.a				
Location of all underground utilities within 100 feet of project (if they are affected by the project), existing utility poles and guy anchors, valves, manholes, catch basins, fire hydrants, meter boxes and vaults, signs, etc.	2.03.03.b				
Show all franchise utility crossings at intersections. Conduit to be provided, if actual utility not installed prior to paving.					
All non-City franchise utilities should be located in a GUE where available unless approved by Transportation as a design modification.	Detail 601				
Verify street tree spacing, and number of trees (1 tree per 30'. Collector or higher classification at least two trees, three if a corner lot. Single Family attached requires one tree per frontage).	GCDC 9.1023 (C & D)				

STANDARD	Code	Complete	Needs Revision	Missing	N/A
Verify that street trees are not within 15 feet of street lights and catch basins, within 5 feet of driveway cuts or underground public utilities or 12 feet of nearside of a crosswalk or vehicular approach side of an intersection.	GCDC 9.1023 (E & F)				
Verify that street trees are a minimum of 1.75" caliper.	GCDC 9.1023(B)				
For single family residential development the plans must include a note that the street trees and sidewalks are to be installed with home construction.					
Verify street tree type is on the approved list and appropriate for the planter strip width.	<a href="#">Link</a>				
Trees in rain gardens must be on the approved street tree list as well as the draft Stormwater Plant List.	<a href="#">Internal Hyperlink</a>				
Verify tree protection/fencing is shown on plans.					
Verify HCA & ESRA is shown on plans.					
Grading plan with back lot drainage swales and private storm lines shown on plans.					
Erosion control plan shown.	2.03.02				
Erosion Control Plan notes included.	<a href="#">Link</a>				
Erosion Control Plan details Included from Erosion Control Manual.					
GENERAL STANDARD DETAILS		Detail #			
Will centerline monument box be required as part of this project? Required with new street or adjusted centerline for collector streets and higher. Note: 5/8" iron rod required for local streets.	634				
Does the project include placement of utilities in the public right-of-way?	601				
TRANSPORTATION					
Street, sidewalk, and R-O-W width to City standards (see staff report).	6.02.02 6.05.01				
Pavement width illustrated (curb to curb) on each plan view sheet.					
Each roadway shall indicate its functional classification on the plan sheet associated with its construction.	6.02.01				
Verify no encroachments in rights-of-way unless approved by Senior Transportation Engineer. This includes building overhangs and appurtenances for 'zero lot line' buildings. See <i>Right-of-way Encroachment Permit Review Type document for guidance.</i>	<a href="#">Internal Link</a>				
To reduce damage by parking cars, no above ground infrastructure, trees and signs should be proposed within 5 feet of curb where cars back toward bump outs.					
Sidewalks fronting greenways and other public owned areas to be installed by developer.					

STANDARD	Code	Complete	Needs Revision	Missing	N/A
Sidewalks shall have unobstructed passage width of 5 feet. 48" minimum clear sidewalk width with manager's approval.	6.05.01				
Include handrails or fences where there is a vertical drop of 30" or greater at back of sidewalk.	6.05.01				
Check for ADA sidewalk ramps and conflicts with catch basins and raingardens.					
Show spot elevations at all four corners of ADA curb ramp and landing for a total of 6.					
Two ADA ramps required for each corner of intersection.	6.05.02				
If there is a sidewalk and no existing ramp at corners opposite the development site, an ADA ramp is required.	6.05.02				
Show curb profile in cul-de-sacs.					
Curb return data shall be on the same sheet the return is shown.					
Show gutter elevations at ¼ points around curb returns.					
Check minimum curb return radius is 30 for arterials, 25 for collectors, 20 for local transition and queueing and 15 for local streets.	6.02.11				
Profile both tops of curbs when street is warped.					
Street Barricades (#632) or End of Road Markers (#633) at all dead-end streets. Use End of Road markers except where a drop off hazard exists (slopes steeper than 3:1 for at least 18").	632 or 633				
If an existing street is being extended, add note: Contractor is to call the City for barricade removal.					
Profile with existing ground or street shown.	2.03.04				
Vertical curves: Specify beginning, end, points of intersection, low points, high points, and length. Profile of existing centerline grade shall extend at least 250 feet beyond end of the improvement.	2.03.04.f				
Street grades shown; minimum 0.5%, maximum 6% for arterials, 8% for collectors, 12% for local street classifications unless approved by manager using criteria in PWS.	6.02.08				
Grade tie-in to existing streets and future extension of streets accurate.					
No saw cuts in the wheel paths are proposed.					
Street lights:	6.02.14				
a. Check streetlight proposal for water meter and other conflicts.					
b. Shows all existing poles and lighting on both sides of street(s).					
c. Proposal complies with Table 6.02.14a located at the end of this checklist for the following standards:					
*Frontage Spacing					
*Staggering					
*Height					
*Luminaire Style					

STANDARD	Code	Complete	Needs Revision	Missing	N/A
*Location from curb & trees.					
d. Transformer locations shown.					
e. Street light conduit shown.					
f. Proposed detail provided for streetlights in raingarden. <i>Note: no street lights permitted in raingardens unless there is no alternative.</i>					
<b>Transportation Engineering Review:</b>					
Existing signal conduits and detector loops are shown.					
Proposed new signal interconnect conduit and junction boxes are shown.					
Determine if installation of underground signal interconnect conduit is appropriate for frontage(s).					
For new streets and street realignments, verify horizontal curve radii.	6.02.06				
Striping plan submitted and meets criteria.	6.02.16				
Signage plan submitted and meets criteria.	6.02.16				
If the project is on a bus route, indicate all bus stops along frontage(s) and note distance to nearest bus stops beyond the frontage in each direction of the applicable frontage.					
If bus stop along frontage, determine if concrete pads are needed across planter strip for front and back door bus access.					
Review median design.					
Verify median detail included	Use draft detail				
<b>TRANSPORTATION STANDARD DETAILS</b>		<b>Detail #</b>			
Does the project include the construction of public street? <i>Civic</i> - 617-618, <i>Downtown</i> - DT-1 thru DT-8 <i>Green and Standard</i> - use draft details that match development code update	Various				
Does the project include a rain garden in the public right-of-way?	Use draft details				
Does the project include the need to trench through concrete?	645				
Does the project include grind and inlay of pavement?	643				
Does the project include installation of curb? <i>Monolithic</i> - 602, <i>Type C</i> - 603, <i>Mountable</i> - 604	602-604				
Does the new street section include a cul-de-sac?	619				
Does the new street section include a branch turnaround?	620				
Does the development include a dead end street?	632 or 633				
Will the project include new driveway approaches? <i>Residential</i> - 621, <i>Commercial</i> - 622, <i>Curb return</i> - 623	621-623				
Will the project include construction of sidewalk?	624				
Will the project include the installation of sidewalk ramps? <i>Parallel</i> - 625, <i>Perpendicular</i> - 626	625-626				
Will an end of sidewalk marker be required?	641				

STANDARD	Code	Complete	Needs Revision	Missing	N/A
Is the developer proposing crosswalks constructed with concrete (628) or pavers (629)?	628-629				
Will the project require any street signage?	640				
Does the project include the installation of speed bumps?	646-647				
Does the project include a public facility access road? <i>Standard - 606, Heavy - 605</i>	605-606				
Does the project include a public pedestrian or bicycle accessway?	630 & 631				
Does the project include the construction of a multi-use path?	Use draft detail				
Does the project include the installation of street trees ?					
Does the proposal include the installation of a fiberglass pole for street lighting (Detail 635).	Use draft detail last updated June 15, 2015				
Does the proposal include the installation of an aluminum pole for street lighting (Detail 637).					
Does the proposal include the installation of a street light on a wood pole mast arm (Detail 639)?					
Does the proposal include the installation of a decorative acorn street light (Detail 636)?					
Does the proposal include the installation of a decorative pendant street light (Detail 638)?					
Verify street light disconnect detail included when needed?					
Verify junction box detail included when needed. Verify that the proposal complies with detail.					
Verify signal communications conduit detail included when needed.					
STORMWATER					
Is stormwater addressed for every lot?					
Are backyard storm drains needed to protect lots from adjacent drainage? Private storm drains shall meet UPC.	4.01 & 4.13				
Explicitly note all WQ facilities outside of the ROW as "public" or "private" as applicable.					
Arrows showing direction of flow in street if profile not provided.	4.01.01				
Standard corridor location 5 feet south or east of street centerline.	4.11.01				
Check composite sheet for horizontal and vertical alignment conflicts. All vertical separation of less than 1-foot must be specifically dimensioned on plans.					
Public storm pipe shall be reinforced concrete, HDPE smooth interior corrugated exterior pipe, or white 3034 PVC. Specific pipe material must be called out on plans.	401.02 4.13				
Pipe cover minimum 30" in paved areas, 36" in unpaved areas.	4.11.02				
For pipe size changes at a manhole, match crowns instead of inverts.	4.12.01				
Note included for new connections to existing manholes to rotate manhole cone/flat top and realign steps.					

STANDARD	Code	Complete	Needs Revision	Missing	N/A
Manhole spacing 500' maximum and at all changes in slope, alignment, size, and type, and at grade breaks and intersections.	4.12.01				
Flat top manholes shall be used when rim to crown is less than 4 ft.	Detail 303				
Access structures (manholes, cleanouts) located within an easement are within 14 feet of edge of curb, measured from center of structure lid unless a commercial grade access is provided that allows for maintenance trucks to get within 14 feet of the structure.					
Inlet manhole required if two or more pipes discharge to structure or pipe is larger than 6" or design peak flow from onsite system exceeds 0.5 cfs.	4.12.03				
100' max MH spacing for in-line detention pipes; 50' max for off-line.					
72" manhole normally required for detention structures. MH shall be shown on detention pipe profile.					
Minimum 4.5-foot vertical inside clearance between cartridge and top of water quality manhole or vault.					
WQ manhole: 48" min for 1- and 2-cartridge; 60" min for 3-cartridge. More than 3 cartridges requires a vault.					
Catch basin leads: minimum 12" diameter.	4.13				
Catch basin required on upstream side of intersection.	4.12.02				
Catch basin required at end of dead end street with descending grade.	4.12.02				
Catch basin required at upstream or downstream end of street improvement abutting unimproved roads or property.	4.12.02				
Double catch basins required at low point (sag) of vertical curves.	4.12.02 Detail 401D				
Stationing included for all services and structures.					
Is upstream drainage inlet provided?					
Is outfall protection noted and adequate (rip-rap, energy dissipater, flared ends, etc.)?	4.12.04				
Do rip-rap dimensions meet PWS?	4.12.04				
Downstream property or pipe not adversely affected by concentration, point of discharge, volume or pollutants.	4.04				
Stormwater not to be discharged onto other property without easement.	4.01				
<b>STORMWATER STANDARD DETAILS</b>		<b>Detail #</b>			
Does the project include the installation of stormwater manholes? <i>Manhole</i> - 27" diameter or less: Standard: 301, Shallow: 303 / 30" or greater diameter: Standard 302, Inside Drop: 304 (use new detail), Cast in place: 306 <i>Frame</i> - Suburban: 307, Industrial: 308, Water/tamper proof: 309 <i>Cover</i> - Standard: 413B, Tamperproof: 413A <i>Step</i> - 313 or Hanging Ladder: 411	Multiple				

STANDARD	Code	Complete	Needs Revision	Missing	N/A
Does the project include installation of new public stormwater pipe? <u>Pipe Bedding and Backfill</u> - 314 <u>Trench and Resurfacing</u> - 315 <u>Joints</u> (only for large diameter pipes) - 323-325	Multiple				
"OUTSIDE RIGHT-OF-WAY AS APPROVED BY ENGINEERING" is on the right side and "WITHIN STREET" is on the left side of Detail 315.	315				
Does the project include installation of catch basins? <u>Standard</u> - 401A-C, <u>Double</u> - 401C-D, <u>Non-grated</u> - 403	Multiple				
Does the project include the installation of a ditch inlet? <u>Ditch Inlet</u> - 404 A& B <u>Inlet Manhole</u> - Standard: 405A&B, Alt Top: 405C, Non-grated: 405D	Multiple				
Does the project include detention pipe?	407 & 408				
Are the invert, orifice, and overflow elevations shown on flow control MH detail 407?	407				
Does the project include a storm sump system? <u>Standard</u> - 409, <u>Retrofit</u> - 410	409 & 410				
Does the project require that the height of a manhole be adjusted following changes to the adjacent pavement height?	644				
<b>WASTEWATER</b>					
Standard corridor location 5 feet north or west of street centerline.	3.02.01				
Future line extension provided for. Show topography for at least 200 feet upstream of proposed end of extendable main.	3.01.01				
Pipe depth shall be minimum to provide for future extension.	3.02.02				
Appropriate pipe class for sewers over 30 feet deep					
Check composite sheet for horizontal and vertical alignment conflicts. All vertical separation of less than 1-foot must be specifically dimensioned on plans.					
Minimum clear distance from water mains 5' horizontal, 18" vertical (sewer beneath water main).	3.02.03				
DI pipe required where vertical separation is less than 18", or horizontal separation is less than 5', or when cover is less than 3' from subgrade.	3.02.02 3.02.03 Detail 511				
If waterline crosses under the sewer line, center standard length of sewer pipe at crossing.					
No curved sewers allowed.	3.02.01				
4" Maximum hole for 8" Main taps unless otherwise approved by Wastewater Senior Engineer.	Detail 317				
Is a wastewater lateral provided for every lot?					
Stationing included for all laterals and structures.					
Minimum pipe diameter 4-inch for laterals.	3.01.02				
Laterals shall be placed at 90 degrees to the main.	3.04				



STANDARD	Code	Complete	Needs Revision	Missing	N/A
Keep laterals 10' min from P/L to avoid water meters and utility vaults.	3.04				
Existing houses and vacant lots shall be provided with laterals.	Detail 316				
Minimum pipe diameter 8-inch for mains.	3.01.02				
Drop Elevation:	3.03.01				
a. Min 0.2-foot drop through MH for horizontal deflection over 45 degrees; 0.1-foot drop for 0 - 45 degrees. If sewers in and out are equal size <i>and</i> pass straight through MH, no added elevation change is required.					
b. Shallow inside drop MH required for drop less than 2' to provide smooth flow lines unless the drop is less than 0.1 foot or 0.2 foot as specified in last checklist requirement.	Detail 305				
c. Drop connection required when vertical distance between flow lines exceeds 2' at MH.	Detail 304				
MH finish grade minimum of 1' above existing ground in unimproved area; at grade in existing street; and at future grade in proposed street. In unpaved vehicular accessways, a 5' x 5' x 4" AC pad shall be placed to finished grade centered around frame.	302.03.06				
Shallow MH with slab top shall be used in lieu of cone top when less than 4' between MH shelf and top of lid.	3.03.01				
Manhole spacing 500' maximum and at all changes in slope, alignment, size, type, and at grade breaks and intersections.	3.03.01				
Insert note for all new connections to existing manholes to rotate manhole cone/flat top and realign steps to meet requirements of Standard Detail #306	Detail 306				
Cleanouts are permitted at the end of non-extendable sewer mains which do not exceed 250' in length or serve more than 8 lots.	3.03.02				
Access structures (manholes, cleanouts) located within an easement are within 14 feet of edge of curb, measured from center of structure lid unless a commercial grade access is provided that allows for maintenance trucks to get within 14 feet of the structure.					
<b>WASTEWATER STANDARD DETAILS</b>		<b>Detail #</b>			
Does the project include the installation of wastewater manholes? <u>Manhole</u> - 27" diameter or less: Standard: 301, Shallow: 303 / 30" or greater diameter: Standard 302, Inside Drop: 304 (use new detail), Cast in place: 306 <u>Frame</u> - Suburban: 307, Industrial: 308, Water/tamper proof: 309 <u>Cover</u> - Standard: 310, Tamperproof: 311, Waterproof: 312 <u>Step</u> - 313	Multiple				
Does the project include the installation of new public wastewater pipe? <u>Pipe Bedding and Backfill</u> - 314 <u>Trench and Resurfacing</u> - 315 <u>Joints (only for large diameter pipes)</u> - 323-325	Multiple				

STANDARD	Code	Complete	Needs Revision	Missing	N/A
"OUTSIDE RIGHT-OF-WAY AS APPROVED BY ENGINEERING" is on the right side and "WITHIN STREET" is on the left side of Detail 315.	315				
Is a cleanout required?	320				
Are anchor walls required (pipes with slopes 20% or greater)?	321				
Is concrete encasement required (pipe in waterway that cannot meet coverage requirements of 3.02.05)?	322				
Does the project include the installation of laterals? <i>Lateral</i> - 316, <i>Tap in Existing Main</i> - 317, <i>Siamese Service Branch</i> - 318, <i>Cleanout</i> - 320	Multiple				
Does the project require that the height of a manhole be adjusted following changes to the adjacent pavement height?	644				
<b>WATER</b>					
Normal corridor location 12 feet south or east of centerline.	5.02.01				
Is service level pressure zone identified?					
Are internal mains looped?	5.01.02 5.01.03				
No more than 20 single family homes temporarily served from un-looped waterline during phased construction. Max 250' permanent dead-end.	5.01.03				
One water sampling station required for every 20 lots in subdivisions (none required if less than 20 lots).	5.07 502.19 Detail 505				
8" minimum main typical in subdivision streets; see PWS for other size requirements.	5.01.01				
Check composite sheet for horizontal and vertical alignment conflicts. All vertical separation of less than 1-foot must be specifically dimensioned on plans.					
Proper pipe class noted.	5.01.01				
Minimum cover 36" from existing or future street grade; 48" minimum in unpaved areas.	5.02.02				
Temporary and permanent dead-end mains shall terminate with a properly sized blow-off assembly.	5.01.03 Detail 507				
Minimum water tap spacing of 18 inches along main.	503.07				
Is a water service provided for every lot?					
Stationing included for all services and structures.					
Fire hydrant spacing 300' max in commercial areas; 400' max in residential areas.	5.03.02				
Where no sidewalk exists around hydrant, place 5' x 5' x 4" concrete pad around hydrant. Place adjacent sidewalk panel(s) at time hydrant pad is poured.	503.06 Details 501A, 501B				
Air release valve required at main highpoints without hydrants.					

STANDARD	Code	Complete	Needs Revision	Missing	N/A
Valves located at intersections.	2.03.03.g				
BFV required on 12" and larger main.	2.03.04				
Intersection detail for valves and fittings required when scale is smaller than 1"=20'.	5.01.01				
Fittings identified (MJ x MJ, FLJ x MJ, etc.)	5.03.01				
	Details 508 & 509				
Install only minimum number of valves necessary to effect a shutdown of no more than one block out of service. 2 valves at "T" intersection and 3 valves at cross.	5.03.01				
Maximum length of shutdown 500' in commercial/industrial areas, and 800' in other areas.	5.03.01				
Backflow prevention required all new commercial construction, irrigation and fire sprinklers systems.	5.04				
<b>WATER STANDARD DETAILS</b>		<b>Detail #</b>			
Does the project include the installation of a fire hydrant?	501A & B				
Does the project include installation of new public water pipe?	<u>Trench</u> : 502				
Does the project require the installation of an air valve unit?	506A & B				
Does the project require the installation of a blow-off?	507A&B				
Is thrust blocking required to deal with abrupt changes in horizontal (#508) or vertical (#509) alignment?	508 or 509				
Does the project require the installation of a straddle block?	510				
Will the water pipe be installed in proximity to gravity sanitary sewer pipe?	511				
Is a valve box required (4-6" blow off - 514, 513 - everything else)?	513 or 514				
Does the project include the installation of water services? <i>1" Service - 503, 2" Domestic - 504 B &amp; C, 2" Irrigation - 504 A &amp; C</i> <i>Meter - 515A&amp;D</i>	Multiple				
Is a meter greater than 1.5" being installed?	516 B, C & I				
Is a reduced pressure backflow assembly being installed?	516 E-F				
Is a 3" or larger reduced pressure backflow assembly being installed?	516G				
Is a 2.5" or smaller reduced pressure backflow assembly being installed?	516H				
Does the project include the installation of a sampling station?	505				

**Table 6.02.04a: Standard Street Light Layout and Style**

<b>Street</b>	<b>Classification</b>	<b>Ht. Ft</b>	<b>Frontage Spacing</b>	<b>Luminaire Style</b>
	Arterial*	35	150	Cobra Head Type II
	Major Collector*	35	150**	Cobra Head Type II
	Industrial*	35	150**	Cobra Head Type II
	Commercial*	25	130**	Cobra Head Type II
	Standard Collector*	25	130**	Cobra Head Type II
	Minor Collector*	25	130**	Cobra Head Type II
	Transitional*	25	140**	Cobra Head Type II
	Queuing*	25	140**	Cobra Head Type II
	Pedestrian Accessways	12	75**	Cobra Head Type II
	<b>Centers</b>			
	Arterial in Centers*	16	80	Acorn
	Non Arterials in Centers*	14	100	Acorn
	<b>Civic Neighborhood</b>			
	Civic Boulevard	18	90	Pendant
	Civic Collector	18	100	Pendant
	Civic Community	14	100	Acorn
	Civic Local	14	100	Acorn
	Civic Shared	14	100	Acorn
	<b>Downtown</b>			
	Downtown Blvd	16	80	Acorn
	Non Blvd Streets in Downtown	14	100	Acorn

\* Outside of Downtown and Civic Neighborhood plan areas.

\*\* Lighting required on one street frontage only – or staggered from side to side. Streetlights are required on both frontages (both sides of the street) on all other street classifications and cases.

When using this table request fixture specification from City. Cobra head fixtures shall be installed between the face of curb and no more than four (4) feet on the street side of the face of curb. Pendant fixtures shall be installed between the face of curb and no more than eighteen (18) inches on the street side of the face of curb. Acorn fixtures shall be 2 to 4 feet behind face of curb. Lights shall be no closer than 15 feet to a tree.